

LIPSHITS, Isaak Grigor'evich, prepodavatel'; KHITROV, Vyacheslav
Grigor'yevich, prepodavatel'; YEVTUSHENKO, Aleksey
Ivanovich, prepodavatel'; KOPELYANSKIY, G.D., otv.red.;
PETRAKOVA, Ye.P., red.izd-va; SABITOV, A., tekhn.red.

[Building materials, constructions and parts] Stroitel'nye
materialy, izdeliia i detali. Moskva, Ugletekhizdat, 1959.
222 p. (MIRA 12:11)

1. Rostovskiy-na-Donu gornostroitel'nyy tekhnikum.
(Building materials) (Concrete construction)

~~KHITROV, V.G.~~
KHITROV, V.G.

Apparatus for removing clay stickup to conveyer belts. Rats. 1
izobr. predl. v stroi. no.3:65 '57. (MIRA 11:1)
(Brickmaking) (Conveying machinery)

KHITROV, V.N.

The AUT automatic packaging machine. Bul.tekh.-ekon.inform.
no.6:51-52 '58. (MIRA 11:8)
(Packaging machinery)

KHITROVA, A.D., Cand Med Sci --(diss) ^{On} "Indications and application of the intraarterial pumping of blood and blood-substituting ^{liquids} ~~fluids~~ in terminal states in surgical practice". Voronezh, 1958. 18 pp, (Voronezh State Med Inst). 200 copies. (KL, 38-58, 108)

49

KHITROVA, A.D.; KLEYNER, G.A.; SEREBRYANSKIY, A.B.

Surgical removal of renal and ureteral calculi. Trudy Vor. med.
Inst. 52:19-22 '63. (MIRA 18:3)

KHITROVA, A.D.

Treatment of renal tumors. Trudy Vor. med. inst. 52:91-93 '63.

(MIRA 18:3)

KLADOVSHCHIKOV, A.I. (Voronezh, Baturinskaya ul., d.15/14, kv.4);
KHITROVA, A.D.

Arterial infusion of blood in terminal states. Vest. khir. 70
no.6:19-22 Je'63 (MIRA 16:12)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (zav. - prof. V.P.
Radushkevich) Voronezhskogo meditsinskogo instituta.

KHITROVA, A.P., kand.sel'skokhozyaystvennykh nauk

Harmfulness of the common corn smut. Zashch. rast. ot vred.
i bol. 7 no.1:14-15 '62. (MIRA 15:6)

1. Oshskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya.
(Corn (Maize)—Diseases and pests)
(Smuts)

KHITROVA, A.P., kand. sel'skokhoz. nauk; GRIGOR'YEVA, L.I., aspirantka

Wheat rust in irrigated fields. Zashch. rast. ot vred. i bol.
9 no.7:14-15 '64. (MIRA 18:2)

KHITROVA A. S.

USSR/Chemical Technology. Chemical Products and Their Application.
Pesticides.

J-10

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27517

Author : A.S. Khitrova.

Inst :

Title : Preparations for Removing Cotton Plant Leaves.

Orig Pub: S. kh. Kirgizii 1956, No 6, 52-54; Kyrgyzstandyn ayyi charbasy,
1956, No 6, 58-60.

Abstract: Ethylxanthogenate of Na (I), mineral oil emulsion of pentochloro-
phenol, Mg chlorate (II) and endotale were tested as cotton plant
defoliant. The efficiency of I and II is higher than that of Ca
cyanamide.

Card : 1/1

-10-

KHITROVA, A. S.

Country
Citation

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722020014

ABS. JOUR. : RZBiol., No. *19*, 195*8*, No. 87140

AUTHOR : Khitrova, A.

INST. :

TITLE : Ways of Increasing Effectiveness of Cotton
Defoliation.

ORIG. PUB. : S. kh. Kirgizii, 1957, No 9, 27-30

ABSTRACT : Low efficacy of the use of N_2 as defoliant
is due primarily to low air temperature during the appli-
cation (below 17°). It is proposed therefore to make wider
use of magnesium chlorate, which can be utilized at lower
temperatures and brings about more rapid dropping of the
leaves. Treatment of plantings with this preparation should
be started when the plants carry 2-3 open bolls.

D. B. Vakhmistrov.

CARD: //

KHITROVA, B. G.

232T17

USSR/Chemistry - Synthetic Rubber

Sep 52

"Kinetics of the Oxidation of Polyisobutene," A. S. Kuz'minsky, B. G. Khitrova, Sci Research Inst of Rubber Production

"Zhur Obshch Khim" Vol 22, No 9, pp 1506-1516

The kinetics of inhibited and autocatalytic oxidation of polyisobutene and of butyl rubber were studied in the temp range of 110-130°. It was shown that the consumption of inhibitor and the decline in the mol wt of polyisobutene take place simultaneously. Both processes proceed up to a certain limit (depending on the temp) in the early stages of the reaction. The high-mol fractions are more reactive than the low. Initiation of oxidation of polyisobutene is due to thermal decompn of the mol chain forming its high-mol fraction. Initiation in butyl rubber is based on fission of C - C bonds, as well as oxidation of double bonds. Hence, the initiation rate is detd by 2 const (at 130° K = 1.06×10^{-7} moles/l/sec; $K_1 = 0.14 \times 10^{-7}$ moles/l/sec). Free development of the oxidation process leads to thorough destruction of polyisobutene in the early stages of oxidation. A probable scheme for the oxidation mechanism of polyisobutene is given. On heating in high vacuum (with a low concn of oxygen), both polyisobutene and butyl rubber form more highly developed structures.

(3)

232T17

KOVACHEV, A.; GANEV, L.; KHITROVA, G.

Methods of testing resistance to mold. Mashinostroene 13
no.10:40-41 0 '64.

KHITROVA, L.M.

Biomycin treatment for chronic dysentery in children. *Pediatrics*
39 no.3:41-44 My-Je '56. (MLRA 9:9)

1. Iz kafedry detskikh infektsionnykh bolezney (zav. - prof. V.N. Gol'dina) Voronezhskogo meditsinskogo instituta
(ANTIBIOTICS, ther. use
biomycin, in chronic dysentery in child.)
(DYSENTERY, ther.
same)

KASHKOVSKAYA, Ye.A.; KHITROVA, M.I.; MILOVANOV, V.I.

Adhesive SPD-3 for binding articles made of polystyrene copolymers.
Plast.massy no.10:41-43 '61. (MIRA 15:1)
(Styrene polymers) (Adhesives)

1961, 12

1. Mimiya, Abs. 1961, 12

1. Mimiya, Ye. A., Khitrova, M. I., Khitrova, v. 1, 1961, 12

TITLE: Glue for gluing plastics based on polystyrene

SOURCE: Sb. nauchn rabot Saratovsk, inst. Gidromekhan. 1961, 12, 12

1. Polystyrene, strong
2. Strength

1. The manufacture of

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copies glued together with the
material itself. The material is

KHITROVA, M.I., inzh.; YAKUSHEV, V.G.

Experimental plastic absorption refrigeration operating on gas.
Ispol'. gaza v nar. khoz. no.2:78-86 '63. (MIRA 18:9)

1. Laboratoriya nemetallicheskih materialov Saratovskogo
gosudarstvennogo nauchno-issledovatel'skogo i proyektного
instituta po ispol'zovaniyu gaza v narodnom khozyaystve.

LOGINOV, V.S.; SHITROVA, M.I.

Polyethylene medium-pressure gas pipeline. Gas. prom.
10 no.9:15-19 '65. (MIRA 18.11)

~~KLITSAVA~~ N.A.; TIMOFEYEV, L.A.; SHCHENNIKOV, S.S., starshiy inzhener;
MURASHEVA, O.I., redaktor; KISIHA, Ye.I., tekhnicheskii redaktor

["Bread" pavilion; a guidebook] Pavil'on "Khleb"; putevoditel'.
Moskva, Pishchepromizdat, [1957] 35 p. (MLHA 10:10)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka, 1957. 2. Direktor
pavil'ona (for Timofeyev)
(Moscow--Cereal products--Exhibitions)

KHITROV ^A N.A.

The TSHIKhR-D-1-58 dough divider and the MPS-1 machine for making
biscuit sheets. Biul.tekh.-ekon.inform. no.11:48-50 '60.

(MIBA 13:11)

(Bakers and bakeries--Equipment and supplies)

BELYAYEV, V.A., kand.tekhn.nauk; KABENIN, N.G., kand.tekhn.nauk;
SATSEVICH, Ye.A., inzh.; LUGININ, N.G., kand.tekhn.nauk;
MIRONENKO, N.P., kand.tekhn.nauk; USHAKOV, S.S., kand.tekhn.
nauk, retsenzent; PETUSHKOVA, I.K., inzh., red.; KHITROVA,
N.A., tekhn.nauk

[Unit replacement system and concentration of locomotive repair
work] Agregatnyi metod i kontsentratsiia remonta lokomotivov.
Moskva, Vses. izdatel'sko-poligr.ob"edinenie M-va putei
soobshcheniia, 1962. 179 p. (Moscow. Vsesoiuznyi nauchno-
issledovatel'skii institut zheleznodorozhnogo transporta.
Trudy, no.226). (MIRA 16:2)

(Locomotives--Maintenance and repair)
(Railroads--Cost of operation)

APLAVINA, T.M.; IVANOVA, R.M.; LEYTES, Z.S.; NOSOVA, M.V.;
PODRECHNEVA, V.I.; KHITROVA, N.A.; SEDL'NIKOV, V.I.,
red.; MAYOROV, V.V., tekhn. red.

[Pavillions of the food industry] Pavil'ony pishchevoi pro-
myshlennosti; putevoditel'. Moskva, 1962. 74 p.

(MIRA 16:6)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
(Food industry--Exhibitions)

KHITROVA, N. G.

BTR, V. 2,

Dec 1953

Rubbers + other

Elastomers

4456* Kinetics of Polyisobutylene Oxidation. (Russian.)
A. S. Kuz'minski and N. G. Khitrova. Zhurnal Obshchei Khimii,
v. 23, no. 9, Sept. 1952, p. 1508-1512.
Discusses inhibition and autocatalytic oxidation of polyisobuty-
lene and butyl-rubber. Tables, diagrams. 4 ref.

KHITROVA, N. G.

USSR/Chemistry - Rubber, Fillers

1 Jan 52

"The Effect of Carbon on the Development of Oxidation Processes in Caoutchoucs and Rubbers," A. S. Kus'minskiy, L. I. Lyubchanskaya, N. G. Khitrova, and S. I. Bass, Sci Res Inst of Rubber Industry

Dan SSSR, Vol 82, No 1, pp 131-133

The inhibiting action of carbon is greater during free (autocatalytic oxidation) than in the presence of phenyl-beta-naphthalamine. This is due to the destruction of a peroxide group which leads to a shortening of the chain of the reaction during the free process, while during the inhibited oxidation every rupture on carbon means a loss of one active center. Presented by Acad P. A. Rebinder 3 Nov 51.

PA 252T9

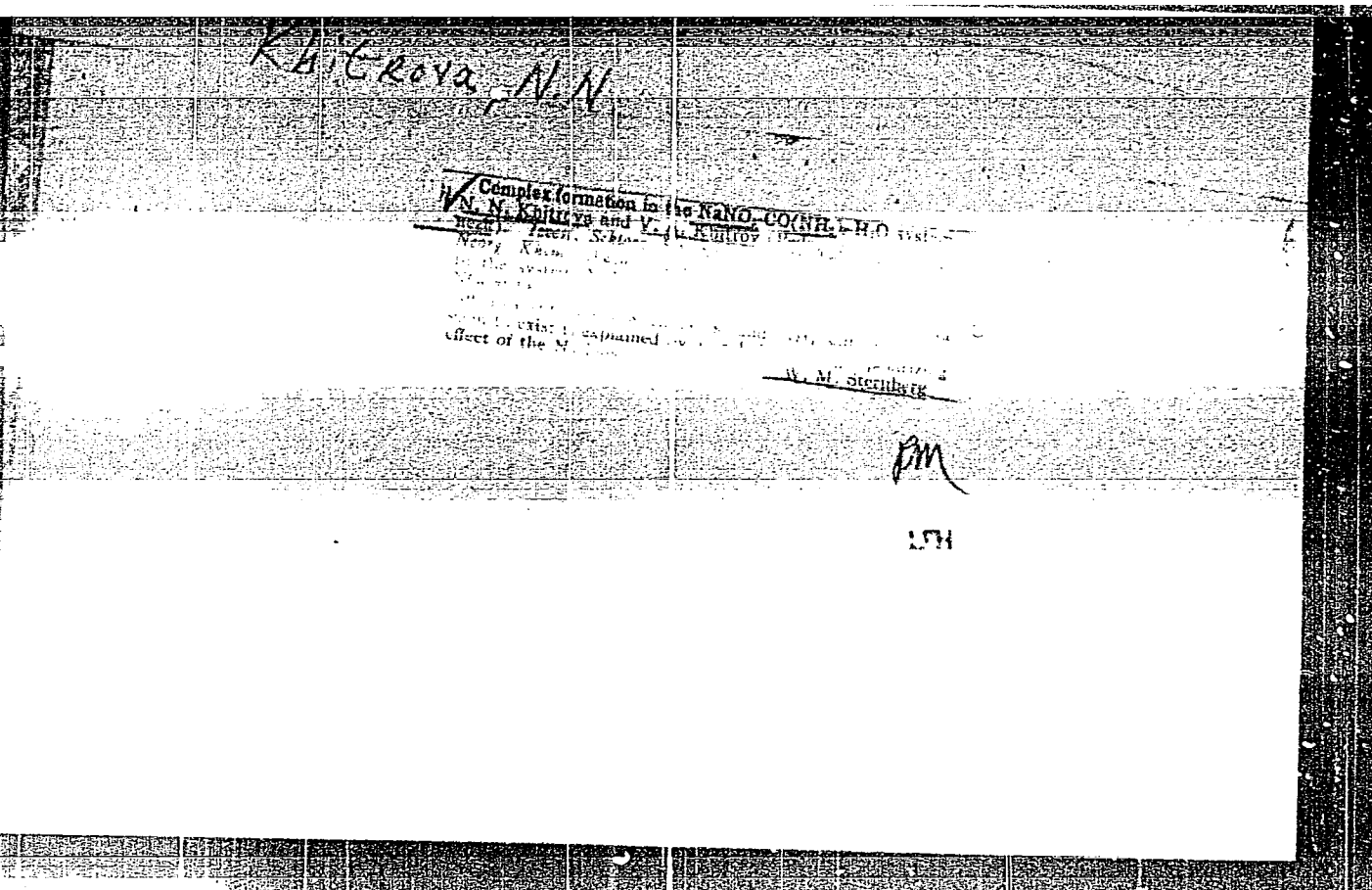
COMMON ELEMENTS		COMMON VARIANTS	
1ST AND 2ND POSITIONS	3RD AND 4TH POSITIONS	1ST AND 2ND POSITIONS	3RD AND 4TH POSITIONS
<p>PROCESSES AND PROPERTIES INDEX</p> <p>The physical-chemical properties of aqueous solutions of ammonium pentaborate. V. N. Alferova and N. N. Khitrova. <i>Acta Univ. Veroniensis</i> (U. S. S. R.) 11, No. 3, 7-11 (1939); <i>Khim. Referat. Zhur.</i> 1940, No. 2, p. 10.—The soly. curve of NH_4 pentaborate (probably $(\text{NH}_4)_2\text{O} \cdot 0.5\text{B}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$) between 0° and 40° has no breaks that would indicate the formation of other hydrates. NH_4 pentaborate easily forms strongly supersatd. soln. The dependence of the velocity of formation of crystals on supersatn., temp. and mixing of the solns. was investigated. The elec. cond. and pH of satd. pentaborate solns. were also studied at 20–40°. The solns. have pH 0.0–7.2.</p> <p>W. R. Hean</p>			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>			
FROM STUDYING		FROM SOLVING	
1ST AND 2ND POSITIONS	3RD AND 4TH POSITIONS	1ST AND 2ND POSITIONS	3RD AND 4TH POSITIONS

KHIROVA, N. N.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
General and Physical Chemistry

Chem
Temperatures of melting points and polymorphic transitions of lithium, sodium, and potassium hydroxides. V. A. Khirova, N. N. Khirova, and V. F. Khmel'kov (State Pedagogic Inst., Voronezh). Zhur. Obshchei Khim. 23, 1130-2 (1953).—Temp. vs. time curves for hydroxides of Li, Na, and K give their resp. m. ps. as 462, 322, and 406°. Polymorphism of LiOH is established for the 1st time; transition of α to β is at 413°. The NaOH transition is at 298°; the endothermic effect of polymorphic transformation is greater than for melting. Contrary to the findings of Keshetnikov, et al. (C.A. 47, 394c) only one modification of KOH is found; transition of α to β is at 240°. I. Benicovitz

1. KHITROV, V. A., KHITROVA, N. N.
2. USSR (600)
4. Thermochemistry
7. Composition of compounds formed during reactions of sodium and potassium hydroxides with certain salts of these metals in fusions, Dokl.AN SSSR, 88, No. 5, 1953.
9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.



KLITROVA, N.D.

USSR

Polytherm of the ternary system $\text{NaNO}_3\text{-NaCl-H}_2\text{O}$.
N. N. Klitrova (State Pedagog. Inst., Voronezh). *Zh. obshch. khim.* 27, 1581-90 (1954). — The ternary system $\text{NaNO}_3\text{-NaCl-H}_2\text{O}$ was detd. from freezing to 25° . The binary systems $\text{NaNO}_3\text{-H}_2\text{O}$ and $\text{NaCl-H}_2\text{O}$ were re-examined. The eutectic point of the former was located at -17° with NaNO_3 28 and H_2O 62.00 wt. %. In the $\text{NaCl-H}_2\text{O}$ system besides the 3 crystal branches the eutectic was located at -21.3° with 23.5% NaCl and the transition point at 0.15° at 20.27% NaCl . The data on the binaries and 11 internal planes delineated the system into 4 crystal fields of $\text{NaCl}\cdot 2\text{H}_2\text{O}$ and the 3 components with NaCl occupying the largest field; this indicates a salting-out effect of NaNO_3 on NaCl . The soly. of the latter decreases as the temp. increases and that of NaNO_3 increases. There are a eutectic and a transition point at -21.5 and -5.8° with $\text{ice-NaCl}\cdot 2\text{H}_2\text{O-NaNO}_3$ and $\text{NaCl}\cdot 2\text{H}_2\text{O-NaCl-NaNO}_3$.
I. Benicowitz

Handwritten: K₁, TROYA, N.Y.

Handwritten: 17-11-1991
Printed: To study the production of KNO_3 from KNO_2 and KCl , the equil. conditions in the NaNO_2 - NaCl - H_2O system were investigated to the point of solidification of the system in the 4-component system.

KHITROVA, N.N.

Polytherm of the ternary system ammonium chloride - urea -
water. Izv.Vor.gos.ped. inst. 47:152-155 '64.

(MIRA 18:11)

NESTEROV, V.A.; KHITSOVA, N.V.; D'YACHENKO, I.Ya.

Experience with social insurance of collective farm workers;
collective farm "Pamiati Il'icha" of the Novo-Titarovskaya
District of Krasnodar Territory. Sov. med. 27 no.1:93-95
Ja '64. (MIRA 17:12)

1. Kafedra organizatsii zdravookhraneniya (zav.- dotsent V.A.
Nesterov) Kubanskogo meditsinskogo instituta, Krayevaya
sanepidstantsiya (glavnyy vrach Ye.V. Strikhanova) i Mar'yanskaya
uchastkovaya bol'nitsa (glavnyy vrach I.Ya. D'yachenko).

GREBINSKIY, S.O.; DUDNIK, V.N.; SKOROKHODOVA, I.A.; KHITROVA, T.N.

Biology of kok-saghyz in wide strip plantations. Dop. ta pov.
L'viv. un. no.5 pt.2:23-26 '55. (MLRA 9:10)

(Kok-saghyz)

KHITROVA, V. I.
USSR/Crystals.

B-5

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18261

Author : Z.G. Pinsker, *V. I. Khitrova*

Title : Structural Study of Some Four-Component Tl-Sb-As-Se Alloys.

Orig Pub : Kristallografiya, 1956, 1, No 3, 300-305

ENST : *INSTITUT KRISTALLOGRAFIY AKADEMII NAUK SSSR*

Abstract : The structures of films of semiconductor alloys of the composition $Tl_2Se - [xAs_2Se_3(1-x)Sb_2Se_3]$ were studied by

the electronographic method. The films were prepared from samples obtained in ampoules by fusing the components of the system $Tl_2Se - As_2Se_3 - Sb_2Se_3$ in the quantitative

ratio corresponding to the stoichiometric composition of the final product. Two samples were studied. At the sublimation of one of the samples, a crystalline rhombic variety with lattice parameters a 4.15, b 4.48 and c 11.85 Å was produced. The other sample produced the

Card 1/2

- 56 -

AUTHORS: Khitrova, V.I. and Pinsker, Z.G.

SOV/70-3-5-3/24

TITLE: An Electronographic Investigation of the Nitrides of Tungsten (Elektronograficheskoye issledovaniye nitridov vol'frama)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 5, pp 545-552 (USSR)

ABSTRACT: Tungsten nitrides can be obtained by decomposing the imide, $W_3N_6H_6$, or by heating the metal in NH_3 . Earlier work established the phases α , essentially pure W; cubic β and γ phases with $a = 4.118$ and $a = 4.12$ to 4.13 A, respectively, which correspond to W_2N ; and a hexagonal phase containing less than 50 atm % N but near to WN. The hexagonal δ -phase was found to have the cell size $a = 2.89$ and $c = 2.82$ A in agreement with earlier work. The space group is $P\bar{6}_3m2 = D_{3h}^{12}$. With $Z = 1$, there must be one W atom at $(0,0,0)$ and N atoms at $(1/3, 2/3, 1/2)$ and $(2/3, 1/3, 1/2)$. Films of W obtained by vacuum evaporation onto NaCl crystals were nitrided by heating in a current of ammonia. They were annealed by heating for an hour at less than $500^\circ C$. The size of the cell of the W_2N phase was

Card1/4

SOV/70-3-5-3/24
An Electronographic Investigation of the Nitrides of Tungsten

confirmed. Nitriding in pre-dissociated ammonia at 700 °C for 1-2 hours gave this β -phase. W reflections were observed from the preparation. If the ammonia was not pre-dissociated, hexagonal phases, not described earlier, were found with $a = 2.89 \text{ \AA}$ and $c = 15.3, 22.8, 23.4$ or 32.8 \AA . The modification with the smallest c -dimension was examined further. Texture photographs were used giving the possible space group as one of those with $h-k=3n$, $l \neq 2n$ extinguished. There were two very weak reflections 305 and 307 contravening this. Intensities were measured with a photometer and Patterson syntheses which led to two-dimensional sections and projections on the $xy0$ and xCz planes. These data did not confirm earlier work (N. Schönberg, Acta Chem. Scand., 1954, Vol 8, pp 204-257). The space group D_{6h}^4 was chosen with W atoms in $2(c)$ positions and N in $4(f)$ and $2(c)$ positions. The f positions have one z parameter. The reliability factor for the hkl reflections was reduced finally to 29%. (Table of obs. and calc. ρ given for 80 reflections.)

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SOV/70-3-5-3/24

An Electronographic Investigation of the Nitrides of Tungsten

The final parameters were found to be $z_W = 0.06$ and $z_N = 0.16 (\pm 0.002 \text{ \AA})$. The potential heights of the W peaks in the 2(c) and 4(f) positions were found to be 2100 and 1365 V, respectively. No N atoms were in 4(e) positions. It is concluded that the structure is defective and that the 4(f) positions were filled by W atoms only to the extent of 50 to 75%. This was confirmed by the fall in the reliability factor to 19.5% when the composition was taken as $WN_{0.87}$ instead of W_3N_4 as at first. The contents of one cell are then $W_{4.6}N_4$.

The structure is layered.

Acknowledgments are made to B.K. Vaynshteyn.

Gard 3/4

SOV/70-3-5-3/24
An Electronographic Investigation of the Nitrides of Tungsten

There are 9 figures, 2 tables and 4 references, 1 of which is Soviet, 1 Scandinavian, 1 German and 1 English.

ASSOCIATION: Institut kristallografii AN SSSR
(Institute of Crystallography of the Ac.Sc.USSR)

SUBMITTED: July 11, 1958

Card 4/4

AUTHORS: Khistrova V.I. and Pinsker, Z.G. SOV/70-4-4-13/34

TITLE: An Electronographic Study of Cubic Tungsten Nitride

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 4, pp 545-553 (USSR)

ABSTRACT: The β -phase in the W-N system has hitherto been studied only with specimens containing the α -phase (nearly W). Here, specimens were prepared by heating vacuum evaporated films of W in a current of dry NH_3 . To form the cubic nitride 100% pre-dissociation of the NH_3 was necessary. If the current of gas was too slow a disordered structure resulted. Nitriding took 1-2 hours at 700 °C. Electronograms showed powder patterns of the NaCl-type with $a = 4.12 - 4.14 \text{ \AA}$. These were microphotometered. The half-widths of the lines increased with $\sin \Theta/\lambda$ as compared with an NH_4Cl standard. Fourier analysis of the line profiles was carried out for the lines 111, 200, 422 and 333. This gave the mean crystallite size in two specimens as 250 and 300 \AA . Graphs of the size distributions of

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An Electronographic Study of Cubic Tungsten Nitride ^{SOV/70-4-4-13/34}

crystallites in the two specimens are shown, the first having a sharp maximum at 40 Å and the second a much wider maximum at about 50 Å. The scattering curves were verified using three possible formulae, $WN_{0.5}$, $WN_{0.67}$ and WN for calculating Φ_T . Φ_{exp} was compared with Φ_T and a particular specimen was selected as scattering kinematically. The scattering of other specimens had an intermediate character. The heights of the potential synthesis peaks, calculated for the three models, are compared with those in the synthesis with the observed intensities. The observed value lies between the WN and $WN_{0.67}$ models. Calculated for the former model, $R = 8.6\%$ and for the latter, $R = 7.8\%$. It is concluded that the content of the light component can be found better from the Fourier synthesis than by the minimisation of R . The kinematic scattering of one specimen could be

Card2/3

An Electronographic Study of Cubic Tungsten Nitride ^{SOV/70-4-4-13/34}

explained by the small crystallite size but it is more likely to be due to their imperfection.

There are 7 figures, 2 tables and 10 references, of which 1 is Soviet, 5 English, 2 Japanese, 1 French and 1 German.

ASSOCIATION: Institut kristallografii AN SSSR
(Institute of Crystallography of the Ac.Sc., USSR)

SUBMITTED: May 12, 1959

Card3/3

84120

15.2220

S/070/60/005/005/017
E132/E360

AUTHOR: Khistrova, V.I. and Pinsker, Z.G.

TITLE: The Production and Investigation of the Structure II
of the Hexagonal Nitride of Tungsten ✓

PERIODICAL: Kristallografiya, 1960, Vol. 5, No. 5,
pp. 711 - 717

TEXT: Tungsten nitride has a hexagonal cell with $a = 2.89 \text{ \AA}$ and with various values of c . $c = 15.3$ has been reported by the present authors (idem. Vol. 3, 545 and Vol. 4, 545) but the form with $c = 22.85 \text{ \AA}$ has been studied here. It was obtained by heating thin films of W in NH_3 (rapid stream) at 780 deg. Oblique texture electronographs were obtained from them. The rhombohedral extinctions were very clearly defined. The reflexions were photometered. Patterson and Fourier syntheses gave the structure and the parameters were determined more exactly from line sections parallel to z , and by difference syntheses. The W atoms lie in the positions 2(c) at $0, 0, z_1$ with $z_1 = 0.0607$; 2(d) at $1/3, 2/3, z_2$; 2(d) at $1/3, 2/3, z_3$ with $z_2 = 1/3 - z_1$ and $z_3 = 1/3 + z_1$; N atoms lie at 1(d) Card 1/3

84120

S/070/60/005/005/017
E132/E360

The Production and Investigation of the Structure II of the Hexagonal Nitride of Tungsten

0,0,1/2 and 2(d) 1/3, 2/3, z, with $z = 0.154$. The space group is C_{3v}^2 . The characteristic of the structure is its friability. The interatomic distances W-N vary within the limits of 2.80-3.03, which is significantly greater than the sum of the atomic radii. This is connected with the lability of the phase. The coordination number of each W atom is 10. For N atoms the coordination number is 12 and the polyhedron is a distorted cubo-octahedron. Hexagonal layer-packets of W atoms are distributed parallel to the basal plane at distances of 4.79 from each other. W atoms in neighbouring packets are distributed with the rhombohedral motif 0,0; 1/3, 2/3; 2/3, 1/3. In one c-period there are three such packets. Between the packets layers of N atoms are distributed forming in their own planes similar hexagonal nets.

Card 2/3

84120

S/070/60/005/0057005/017
E132/E360

The Production and Investigation of the Structure II of the
Hexagonal Nitride of Tungsten

There are 11 figures, 2 tables and 7 references: 6 Soviet
and 1 international.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of
Crystallography of the AS USSR)

SUBMITTED: May 27, 1960

Card 3/3

KHITROVA, V.I.

Rhombohedral phase of tungsten nitride in thin films.
Kristallografiia 6 no.4:549-552 JI-Ag '61.

(MIRA 14:8)

1. Institut kristallografii AN SSSR.
(Tungsten nitride crystals—Growth)

KHITROVA, V.I.; PINSKER, Z.G.

Some aspects of the crystallochemistry of tungsten nitrides
and some other interstitial phases. Kristallografiia 6
no.6:882-891 N-D '61. (MIRA 14:12)

1. Institut kristallografii AN SSSR.
(Crystallography)
(tungsten nitrides)
(transition metals)

5/070/62/007/003/005/026
2132/E460

AUTHOR: Khitrova, V.I.

TITLE: Investigation of the second rhombohedral nitride of tungsten and its crystal chemical relationship to other nitrides

PERIODICAL: Kristallografiya, v.7, no.3, 1962, 374-378

TEXT: In an earlier paper it was shown that the hexagonal tungsten nitrides have similar a dimensions but differ in the c dimension. The rhombohedral nitride with $a = 2.89$ and $c = 23.35 \text{ \AA}$ is now described. An imperfectly textured film was prepared with c as the texture axis. Reflexions with $\sin \theta/\lambda$ up to 0.7 were obtained and photometered. (Electron diffraction techniques were used.) Patterson projections were constructed and solved to give the atomic positions, only the z-coordinates of the one N and one W atom requiring parameters. Fourier projections and sections were used to refine the atomic positions. The space group is $D_{3d}^5 = R\bar{3}m$ with W atoms in the 3(a) and 6(c) positions with $z = 0.120$ and N in the 6(c) positions
Card 1/2

Investigation of the second ...

S/070/62/007/003/005/026
E132/E460

with $z = 0.277$. The heights of the peaks were calculated to give the atomic composition as W_7N_6 approximately or $WN_{0.85}$. The W atom sites are incompletely filled (68% occupation). The reliability factor for the 28 reflexions observed was 20%. Three-layer packets of W atoms are stacked in cubic close packing and each cell contains three packets. However, in each packet the layers are not close packed and the centres of atoms in each layer lie on the same vertical line. The N atoms are distributed inside the packets. The planes in which they lie are somewhat displaced from the midway positions towards the middles of the packets. The W-W distances in the packets are 280 and between packets 2.70 Å. There are 4 figures and 1 table.

ASSOCIATION: Institut kristallografii AN SSSR
(Institute of Crystallography AS USSR)

SUBMITTED: June 3, 1961

Card 2/2

KHITROVA, V. I.

Dissertation defended for the degree of Candidate of Physicomathematical Sciences at the Institute of Crystallography in 1962:

"Electronographic Investigation of Tungsten Nitrides."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

S/070/63/008/001/006/024
E132/E460

AUTHOR: Khistrova, V.I.

TITLE: Superstructures and disordered phases in the
system W - N

PERIODICAL: Kristallografiya, v.8, no.1, 1963, 39-46

TEXT: The possibilities of electron diffraction have been exploited for finding the positions of N atoms in the presence of W atoms. By nitriding W at 750°C for two hours in a current of NH₃, a hexagonal phase with $a = 2.89$ and $c = 11 \text{ \AA}$ was obtained and was examined electronographically. Oblique texture diagrams were obtained which were photometered to give the observed intensities. From these, F₂ projections were constructed and solved to give the positions of the W atoms. Fourier projections were made assuming the space group D_{6h}^{14} (which was later confirmed). If some moderately weak reflections are ignored the c-dimension would be halved. The W atoms lie in two positions 2(a) and 2(b) filling one only to the extent of 28%. The N atoms are in 4(f) positions with z approx 0.125. Alternate layers of W were shown to be

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✓

Superstructures and disordered ...

S/070/63/008/001/006/024
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deficient and the others complete. The atoms W_{II} in the deficient layer are placed at the centre of a distorted octahedron of N atoms 2.16 Å away. Besides this, there are 6 x 0.28 other W_{II} atoms in the same layer at a distance of 2.89 Å. In the complete layers the W_I atoms lie at the centres of trigonal prisms of N atoms with a W-N distance of 2.14 Å. Six other W_I atoms lie 2.87 Å away. The N atoms lie each at the centre of a trigonal prism of W_I and W_{II} atoms which has one deficient base. Two further intermediate phases were observed from the progressive smearing of reflections with increasing ℓ for reflections with $h - k \neq 3n$. Superstructure lines giving $c = 22$ Å were also evident. Two other phases were distinguished: δ^I_h , which is hexagonal with $a = 2.885$ and $c = 15.46$ Å, was made by nitriding W at 780°C in a rapid current of NH_3 for 5 hours. The filling of the W positions appears to be 90%. At 67% filling the c dimension drops to 15.30 Å. A superstructure of δ^I_h occurs which has $a = 2.885$ and $c = 30.92$ Å. A structure with a layer stacking AcAcABBcBACaABcBcB is proposed (caps. W; l.c. N atoms) for this. This phase only occurs in the defect state - one of the

Card 2/3

Superstructures and disordered ...

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E132/E460

W positions is only filled to the extent of 65 to 67%. There
are 5 figures and 1 table.

ASSOCIATION: Institut kristallografii AN SSSR
(Institute of Crystallography AS USSR)

SUBMITTED: April 18, 1962

Card 3/3

KHITROVA, V.I.

Electron diffraction study of the hexagonal tungsten nitride
 δ IV H with periods $a = 2.89$, $c = 10.80$ Å. Kristallografiia
8 no.6:873-876 N-D'63. (MIRA 17:2)

1. Institut kristallografi AN SSSR.

KHITROVA, V.I.

Disordered and superstructure phases in the system W - N.
Kristallografiia 8 no.1:39-46 Ja-F'63 (MIRA 1787)

1. Institut kristallografi AN SSSR.

17(13)

SOV/177-58-5-8/30

AUTHOR: Khitrova, Ye.M., Lieutenant-Colonel of the Medical Corps

TITLE: The Treatment of Patients Suffering From Hypertonia With Reserpine (Serpasil) in Polyclinics (Lecheniye reserpinom (serpazilom) bol'nykh gipertonicheskoy bolezni'yu v poliklinicheskikh usloviyakh)

PERIODICAL: Voenno-meditsinskiy zhurnal, 1958, Nr 5, pp 39 - 43 (USSR)

ABSTRACT: The article contains data on the study of the hypotensive effect of reserpine by the author and physicians Tuchman, Schletten, Krumpton, Borsari, Boshi, Toyya, Khonkheyzer, Lider, Putts, Shpis, Arnold, Ortel, Flyugel', Bente and Itil. The author bases his data on investigations of 50 outpatients suffering from hypertonia with slowly progressing course in various stages and forms, who were treated with reserpine. He concludes that reserpine as a pre-

Card 1/2

SOV/177-58-5-8/30

The Treatment of Patients Suffering From Hypertonia With Reserpine
(Serpasil) in Polyclinics

paration has good hypotensive and sedative properties and is to be recommended for treating outpatients suffering from hypertonia with slowly progressing course in various stages and forms. The administration of reserpine in doses, confirmed by practice, has no effect on the composition of the red and white blood corpuscle on the content of cholesterine in the blood and on the prothrombin index. The author thinks it possible that treatment with reserpine reduces the need for hospitalization of patients suffering from hypertonia. There is 1 Soviet reference.

Card 2/2

KHITROVA, Ye.M., podpolkovnik meditsinskoy sluzhby

Choline chloride therapy for patients with coronary atherosclerosis
under clinical conditions. Voen.-med.zhur. no.10:73 0 '59.

(CHOLINE)

(ARTERIOSCLEROSIS)

(MIRA 13:3)

KHITROVA, Ya.M. (Zhlebnikovo, Moskovskoy oblasti)

Use of promedol in the compound treatment of peptic ulcer. Kaz.
med.zhur. 41 no.1:118-119 Jan '60. (MIRA 13:6)

(PEPTIC ULCER) (PIPERDINE)

KHITROVO-GOREVA, T.V.

25200. KHITROVO-GOREVA, T. V. Klinicheskoe Znachenie Tsitologii Mokroty. Sov. Meditsina, 1949, No. 8, s. 15-16.

SO: Letopis' No. 33, 1949

KHITROVO-GOREVA, T.V.

Sputum

Clinical significance of sputum cytology., Terap, arkh., 23, no. 6, 1951.

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED

EXCERPTA MEDICA Sec 15 Vol.11/6 Chest June 56

1283. THE CYTOLOGICAL DIAGNOSIS OF MALIGNANT NEOPLASMS OF THE RESPIRATORY ORGANS (Russian text) - Khitrovo-Goreva T.V. Inst. of the Exp. Pathol., Therap. of Cancer of the USSR Acad. of Med. Sci., Moscow - LAB. DELO 1956, 1 (9-12)

The most feasible procedure for the establishment of the presence of a malignant neoplasm is the cytological examination of exudates, needle biopsy and punch biopsy of the tumours. In the ordinary way it is usually only necessary to examine the fresh preparation, but for detailed study staining with Romanowsky's (methylene blue-eosin) or May-Grünwald-Giemsa's stain is recommended. Atypia or pleomorphism of cells is to be regarded as a sign of malignancy. Frequently, large cells with several nuclei are encountered. The nuclei often have an irregular form, and mitotic figures are frequent. The cells are often arranged in layers or blocks. Syncytial formations may be observed. In addition to the neoplastic cells in the sputum of the lung cancer patient, elastic fibres are often seen.

Semenova - Moscow (S)

KHITROVO-GOROVA, T.V.

Work of Moscow Scientific Society of Research Physicians. Lab.delo,
2 no.2:32 Mr-Apr '56. (MLRA 9:10)

1. Sekretar' Moskovskogo nauchnogo obshchestva vrachey-laborantov.
(MEDICAL SOCIETIES)

KHITROVA-GOREVA, T.V.

Cytological diagnosis of cancer cells in excretions of the human organism. Izv.AN Arm.SSR,Biol.i sel'khoz.nauki. 9 no.4:79-85
Ap '56. (MLBA 9:8)

1. Klinicheskaya laboratoriya Instituta eksperimental'noy patologii i terapii raka Akademii meditsinskikh nauk SSSR.
(CANCER--DIAGNOSIS) (EXCRETION)

KHITROVO-GOREVA, T.V.

Simple and quick method for washing slides. Lab.delo 3 no.4:57
J1-Ag '57. (MIRA 10:8)

1. Iz kliniko-morfologicheskoy laboratorii TSentral'nogo nauchno-
issledovatel'skogo instituta protezirovaniya i protezostroyeniya
(LABORATORIES--EQUIPMENT AND SUPPLIES)

KHITROVO-GORIEVA, T.V., zasluzhenny vrach RSPSR

Characteristics of the blood and of the brain in lymphogranulomatosis.
Probl. gemat. i perel. krovi 3 no.6:29-31 N-D '58. (MIRA 12:7)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo instituta protezirovaniya i protezostroyeniya (dir. - prof. B.P. Popov) Ministerstva sotsial'nogo obespecheniya RSPSR.

(BLOOD--EXAMINATION) (HODGKIN'S DISEASE)
(BRAIN--DISEASES)

KHITROVO-GOREVA, T.V.

The blood picture in 1957 influenza case. Lab.delo 6 [1.e.4] no.4:28-29
Jl-Ag '58 (MIRA 11:9)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta protezirovaniya
i protezostroeniya (dir. - prof. B.P. Popov) Ministerstva sotsial'nogo
obespecheniya RSFSR, Moskva.

(BLOOD-CHEMISTRY AND ANALYSIS)
(ASIAN FILM)

KHITROVO-GOREVA, T.V.

Analysis of the acidity of the gastric juice by means of gastrotest.
Lab. delo 6 no.5:42-43 S-0 '60. (MIRA 13:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut protezirovaniya
i protezostroyeniya Ministerstva sotzial'nogo obespecheniya RSFSR,
Moskva.

(GASTRIC JUICE—ANALYSIS)

KHITROVO-GOREVA, T.V.

Report of the Moscow Scientific Society of Physicians and Labora-
torians. Lab. delo 10 no.5:316-318 '64. (MIRA 17:5)

KHITROVO, D.F.

Woodworking industry of White Russia in the seven-year plan.
Der.prom. 9 no.2:1-3 F '60. (MIRA 13:6)

1. Upravleniye lesnoy, bumazhnoy i derevoobrabatyvayushchey
promyshlennosti sovnarkhosa Belorusskoy SSR,
(White Russia--Woodworking industry)

USSR/Cultivated Plants - Grains

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53570
Author : Smirnov, A.V. Khitrovo, O.V.
Inst : The All-Union Scientific Research Institute of Hydraulic Engineering and Melioration
Title : Cultivation of Corn on Peat Soils.
Orig Pub : Zemledeliye, 1956, No 4, 120-122
Abstract : In 1955, the All-Union Scientific Research Institute of Hydraulic Engineering and Melioration conducted experiments on growing corn on the reclaimed (in 1953) low lying bog near terraces in the bottom land of the Yakhroma river (Moskovskaya Oblast'). Corn developed best of all on micro-elevations. In microdepressions the condition of the plants was poor. It is recommended that a thorough leveling of the soil surface be made with

Card 1/2

- 20 -

KHITROVO, O. V. Cand Agr Sci -- (diss) " Effect of spring floods upon ~~the~~
ing the *plain meadows.* increase ~~in~~ yields of river valleys. (As in the Yakhroma *plain* river ~~bottom lands~~). "
Mos. 1957, 16 pp 20cm. (Min of Agr USSR. All-Union Sci Res Inst of Hydraulic
Engineering and Improvement), 110 copies (KL, 24-57, 119)

KHITROVO, D.F.

We are raising the technological level of production and improving the quality of furniture. Der. prom. 14 no.4:17-20 Ap '65. (MIRA 18:5)

COUNTRY	: USSR	
CATEGORY	: Meadow Cultivation.	L
ABS. JOUR.	: RZhBiol., No. 3, 1959, No. 10816	
AUTHOR	: Khitravo, O. V.	
INST.	: All-Union Scientific Research Institute of Hydraulic*)	
TITLE	: The Influence of Flooding by Spring High Waters on the Raising of the Productivity of Flood Plain Meadows (Using as an Example Yakhroma River Flood Plain).	
ORIG. PUB.	: Tr. Vses. n.-i. in-ta gidrotekhn. i melior., 1957, 29, 191-206	
ABSTRACT	: On flood plain lands flooded by spring waters, the yield of grasses rises sharply in comparison with the lands not flooded. The favorable periods of inundation differ for different grass species and are conditioned in the main by the total temperature of the spring high water. The river deposits enrich the soil with nutrients and being deposited in a layer of 4 millimeters in thickness, they do not delay the spring revival of the plants. Compositions of grass mixtures promising for different sections of the flood plain are indicated. -- B. K. Florov	

CARD: 1/1

*) Engineering and Improvement.

KHITROVO, Ye.V.

Morphogenesis of flower buds in ground cherry and western sand
cherry in Novosibirsk. Trudy TSSES no.7:65-70 '64.
(MIRA 17:11)

KHITROVO, Z. S.

KHITROVO, Z.S.: "Intra-arterial injection of penicillin in surgical infections." Chair of General Surgery, Kiev Order of Labor Red Banner Medical Inst imeni Academician A. A. Bogomolets. Kiev, 1956. (Dissertations for degree of candidate in Medical Sciences).

SO: Knizhnaya letopis' No 22, 1956

KHITROVO, Z.S., kandidat meditsinskikh nauk (Kiyev, ul. Chkalova, d. 50,
Ky. 77)

Treating septic thrombosis of the cavernous sinuses. Nov.khir.arkh.
no.3:68-70 My-Je '57. (MLRA 10:8)

1. Kafedra obshchey khirurgii (sav. - chlen-korrespondent AN USSR
prof. I.N.Ishchenko) Kiyevskogo meditsinskogo instituta
(CAVERNOUS SINUS--DISEASES) (THROMBOSIS)

KHITROVO-GOREVA, T.V.

Two cases of leukemia and two cases of cancer in a single family.
Probl. gemat. i perel. krovi 5 no. 12:49 '60. (MIRA 14:1)
(LEUKEMIA) (CANCER)

[illegible]

L 8607-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AR5014370

SOURCE CODE: UR/0271/65/000/005/B077/B077

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika.
Svodnyy tom, Abs. 5B536

AUTHOR: Khitrovskiy, Ye. I.

TITLE: Use of computing devices in threading composition resistors

CITED SOURCE: Tr. po vopr. primeneniya elektron. vychisl. mashin v nar.
kh-ve. Gor'kiy, 1964, 217-218

TOPIC TAGS: industrial automation, computing device

TRANSLATION: The control device of a machine for threading MLT-0,5-w
composition resistors is described. An automatic adjustment of the resistor to
fit its nominal value can be made by changing the thread pitch. The pitch h is
connected with the billet resistance r and the required nominal resistance R by

Card 1/2

UDC: 681.142.343

L 8607-66

ACC NR: AR5014370

0
this formula: $h = f(R/r)$. The system operates in the following way: The ratio R/r is measured by a potentiometric dividing circuit which comprises the resistance r of the billet mounted in the machine and a reference resistor box R . The desired nominal resistance is selected in the reference box, and the increasing resistance of the billet being threaded is compared with it. A signal corresponding to R/r is introduced into a machine simulator. This signal is applied to a diode function generator, wherefrom the signal $u = f(R/r)$ is applied to the electrical-motor drive and ensures the required speed of rotation of the billet, i.e., the desired thread pitch. As soon as the nominal value has been attained, the control device of the grinding disk receives a stop signal which discontinues the threading. The above threading-control device ensures fabrication of resistors with an error of 5% nominal value.

SUB CODE: 09, 13

Card 2/2 *pu*

ZAVALISHIN, P.A.; KHITRUK, M.I.; ZUBAREV, N.G., laureat Stalinskoy premii,
red.; DONSKOY, Yu., red.; LADNYY, Yu., tekhn. red.

[Efficiency promoters and inventors at the Kharkov Tractor Factory]
Ratsionalizatory i izobretateli Khar'kovskogo traktornogo zavoda.
Pod red. N.G. Zubareva. [Khar'kov] Khar'kovskoe knizhno-gazetnoe
izd-vo, 1952. 47 p. (MIRA 11:9)

(Kharkov--Tractor industry)

KHITRUK, M.S., inzhener, redakter; STUPIN, A.K., redakter; UVAROVA, A.F.,
tekhnicheskiiy redakter.

[Collection of designs for spare parts of circular grinding machines,
models 3151 and 3161] Al'bom chertezhei zapasnykh detalei krugleshli-
feval'nykh stankov model'ei 3151 i 3161. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1955. 46 p. (NIIIA 9:5)

1. Russia (1923- U.S.S.R.) Ministerstvo stankostroitel'nyy i instru-
mental'nyy promyshlennosti.

(Grinding machines)

KHITRUK, M.S.

RIVKIN, A.I.; KHITRUK, M.S.; PROKOPOVICH, A.Ye., red.; SHEMSHURINA, Ye.A.,
red.izdatel'stva; MATVEYEVA, Ye.N., tekhn.red.

[Modernization of interior grinding machines; practical instructions]
Modernizatsii vnutrishlifoval'nykh stankov; rukovodiashchie
materialy. Pod red. A.Ye.Prokopovicha. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1957. 51 p. (MIRA 10:12)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut
metallorezhushchikh stankov.
(Grinding machines)

RIVKIN, A.I.; ~~KHITRUK, M.G.~~; PROKOPOVICH, A.Ye., red.; BALANDIN, A.F., red.
izd-va; TIKHANOV, A.Ya., tekhn, red.

[Modernization of surface grinders; a guide] Modernizatsiia plosko-
shlifoval'nykh stankov; rukovodiashchie materialy. Pod red. A.E.
Prokopovicha. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1957. 62 p.
(MIRA 11:8)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut
metallorazhreshchikh stankov.
(Grinding machines)

25(5)

PHASE I BOOK EXPLOITATION

SOV/2871

Alekseyeva, S. M., A. I. Rivkin, and M. S. Khitruk

Modernizatsiya bestsentrovyykh krugloshlifoval'nykh stankov (Modernization of Cylindrical Centerless Grinding Machines) Moscow, Mashgiz, 1957. 71 p. 6,700 copies printed.

Sponsoring Agency: Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallovezhushchikh stankov.

Ed. of Publishing House: Ye.A. Shemshurina; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on Metal Working and Tool Making: R.D. Beyzel'man, Engineer.

PURPOSE: This book is recommended for technical and engineering personnel in machine manufacturing plants and maintenance and repair shops.

COVERAGE: The book reviews problems associated with the modernization of general purpose centerless cylindrical grinders in order

Card 1/3

Modernization (Cont.)

SOV/2871

to increase their productivity and precision. Special attention is given to the mechanization and automation of auxiliary operations. It also describes a representative plan of modernization for Model 3180 grinder developed at the Vitebsk Machine Tool Plant imeni Kirov and a consolidated list of recommendations on the mechanization of machine tools. No personalities are mentioned. There are 5 Soviet references.

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KHITRUK, M.S.

PHASE I BOOK EXPLOITATION

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Eksperimental'nyy nauchno-issledovatel'skiy institut metallorazhishchikh stankov

Modernizatsiya krugloshlifoval'nykh stankov (Modernization of Cylinder-and-cone Grinding Machine Tools) Moscow, Mashgiz, 1957. 102 p. 8,000 copies printed.

Ed.: Prokopovich, A.Ye.; Compilers: Rivkin, A.I., Tokarev, Ya.I., Khitrak, M.S.; Managing Ed. for Metal Processing and Machine Tool Building Literature: Beyzel'man, R.D., Engineer; Ed. of the Publishing House: Shemshurina, Ye.A.; Tech. Ed.: Tikhanov, A.Ya.

PURPOSE: The monograph is intended for technical and engineering personnel of machine-building plants and for chief mechanics.

COVERAGE: The book recommends methods for modernizing cylinder-and-cone grinding machines in order to increase their productivity, precision, and longevity. Grinding machine tools comprised about 20 percent (352,000 units) of the Soviet machine tool stock as of January 1, 1956, and cylinder-

Card 1/4

MOSCOW - EKSPERIMENTAL'NOY NAUCHNO-ISSEDOVATEL'SKIY INSTITUT
METALLOREZHUSHCHIKH STANKOV

Modernization of Cylinder-and-cone (Cont.)

69

and-cone grinding machine tools about 6.5 percent (115,000 units). The modernization measures recommended in this book are designed for cylinder-and-cone grinding machine tools, Models 313, 315, 315M, 316, and 316M, all manufactured by the Kharkov Machine Tool Building Plant imeni Molotov. A table giving the specifications of these machine tools as well as some machine tools produced abroad is included. No personalities are mentioned. There are 22 Soviet references.

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1. Semiautomatic cylinder-and-cone machine tool Model 3153 and automatic Model 3153B (ENIMS construction)	89
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Modernization of Cylinder-and-cone (Cont.)

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Supplements:

1. Sample calculations of the basic elements of the polishing chuck of a Model 3151 machine tool converted to work with an increased velocity of the polishing disk 95
2. Summary data on the modernization of some cylinder-and-cone machine tools produced in the USSR 98

AVAILABLE: Library of Congress (TJ1280 .M58)

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VK/vs
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KH-TRUK, M.5

(S) 52-29860
PHASE I BOAC EXPLOITATION
SOV/2794

Москва. Дом научно-технической пропаганды имени П. П.
Дерзвинского

Комплексы автоматизации и механизации в машиностроении
 союзных республик (Общая Автоматизация и Механизация в
 Машиностроении: Коллекция статей) Москва,
 Машиз, 1959. 312 с. 8.000 экз. изд.

Additional Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy BPSN.

Ed.: A. N. Mal'ov, Candidate of Technical Sciences; Tech. Ed.: B. I. Model', Managing Ed. for Literature on Metalworking and Toolmaking (Mashgiz); R. D. Berez'man, Engineer.

PURPOSE: This collection of articles is intended for engineering and technical personnel of plants manufacturing machines and instruments.

COVERAGE: This book acquaints industrial workers with devices and equipment necessary for the overall mechanization and automation of technological processes in machine manufacturing. The articles deal with general problems of automation and assembly shops, and with processes in preparatory, machine, and assembly shops, and with processes in the introduction of transfer lines. The book also includes examples of devices and equipment tested and used under actual plant conditions. The source of these data was the meeting on overall mechanization and automation of technological processes held in 1957 by the Moscow Polytechnic Institute of Mechanical Engineering. The book is published by the Scientific and Technical Publishing House of the Ministry of Heavy Industry of the USSR. The book is written in Russian. Several of the articles are followed by references.

Trubnikov, N.Y. /Candidate of Technical Sciences/. Programmed Control of Metalcutting Machine Tools

Boltukhin, A.K. [Engineer]. Mechanization and Automation of Machining Processes on Milling Machines

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